

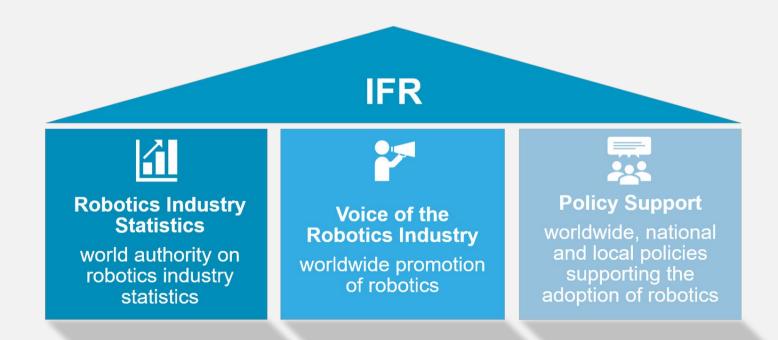
IFR Executive Roundtable on 7 June 2022

How Robotics and Automation Are Transforming the North American Economy

International Federation of Robotics



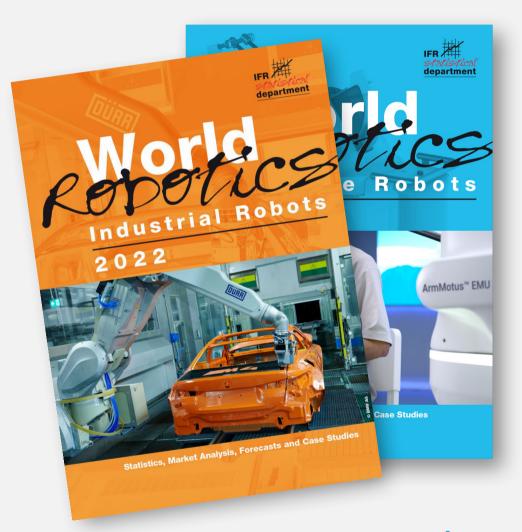
- Non-profit organization since 1987
- IFR represent more than 2,000 organizations from 25 countries
- Robot manufacturers, national robotics associations, universities, start-ups worldwide
- Annual global robotics turnover \$50 billion (robot systems including software & peripherals)



IFR statistics and World Robotics

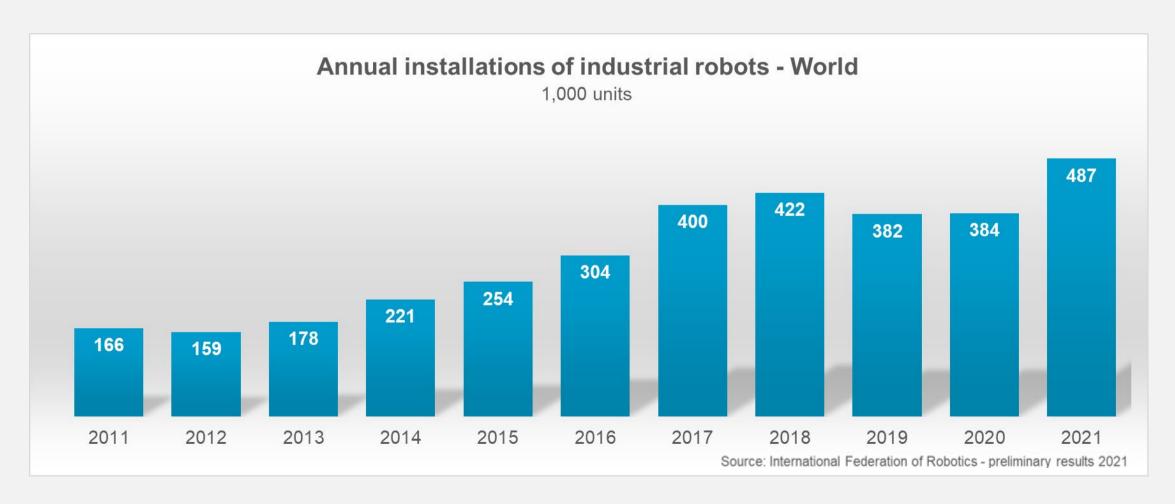


- Numbers presented here are preliminary
- Final results will be published in World Robotics 2022
 - Available October 2022



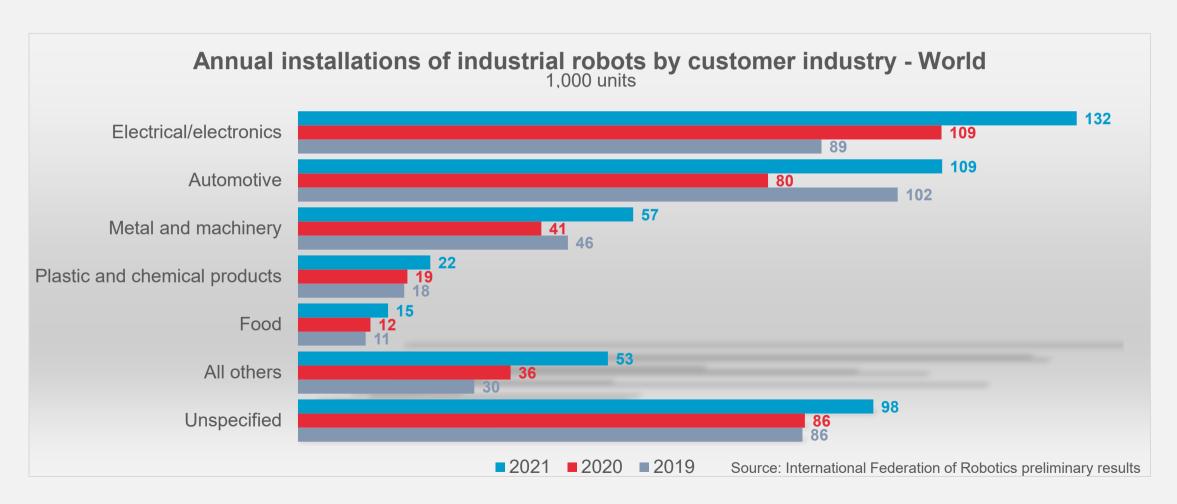
Global installations 2021: 486,785 units (+27%)





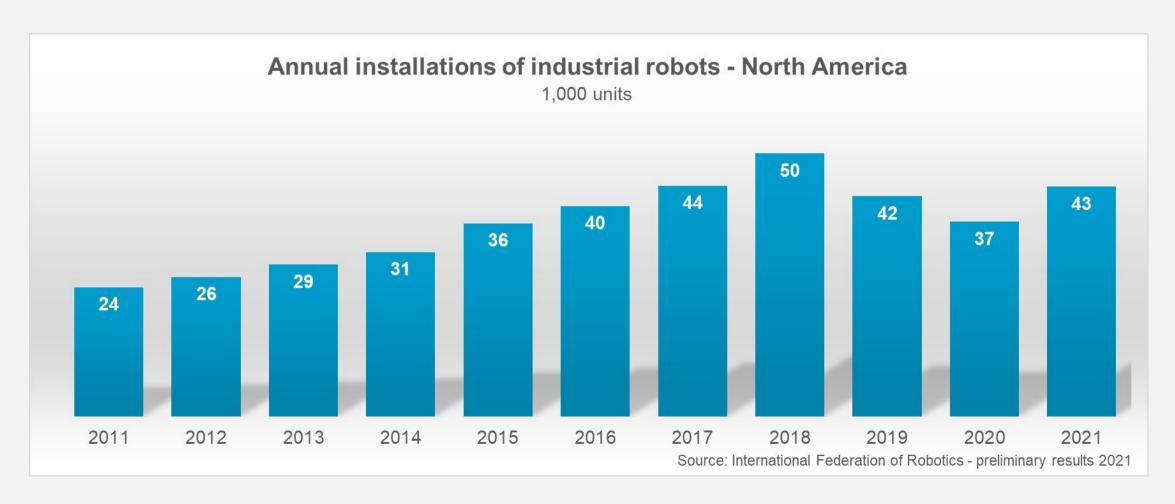
Electronics largest customer





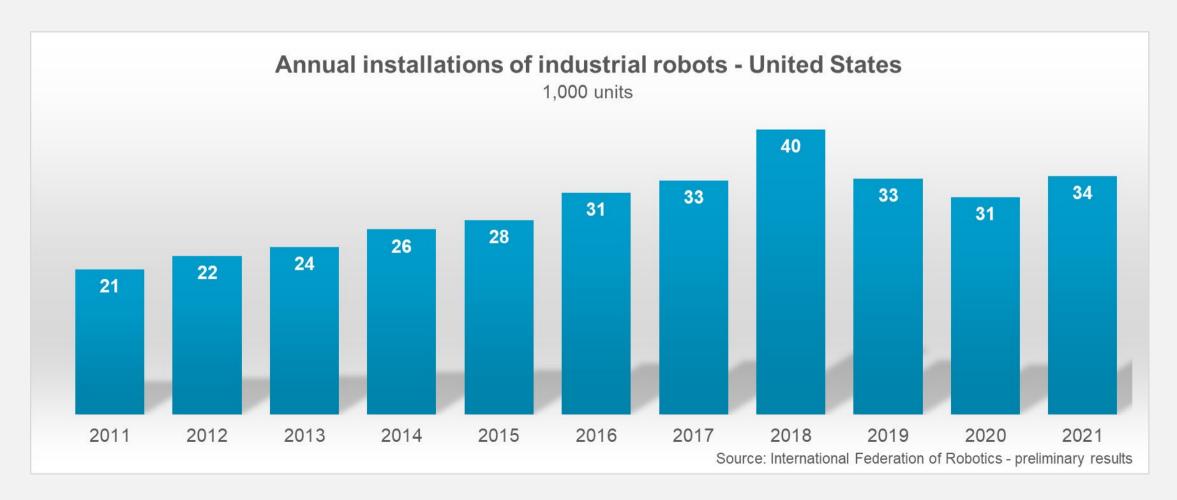
North America exceeding pre-pandemic level





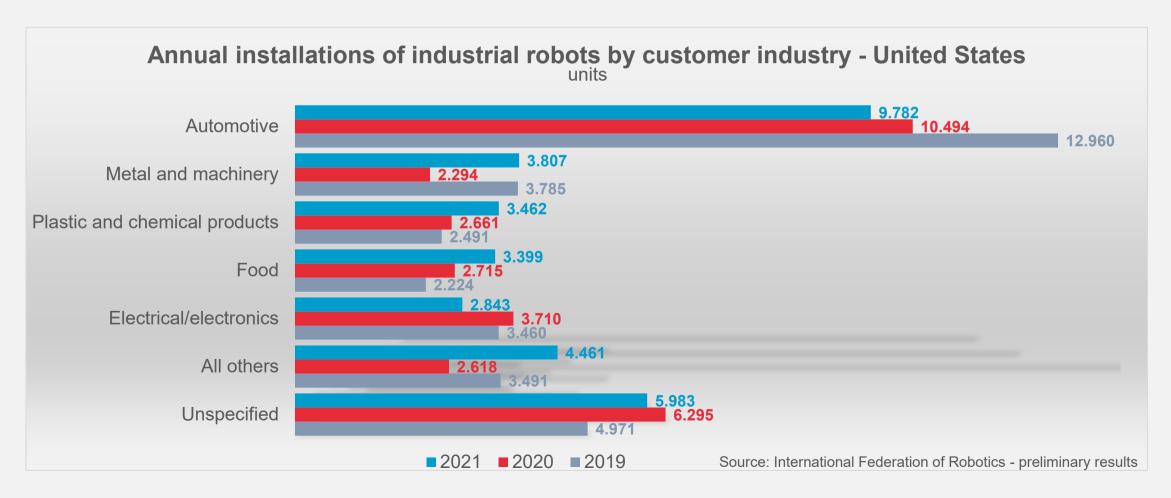
US installations at +10%





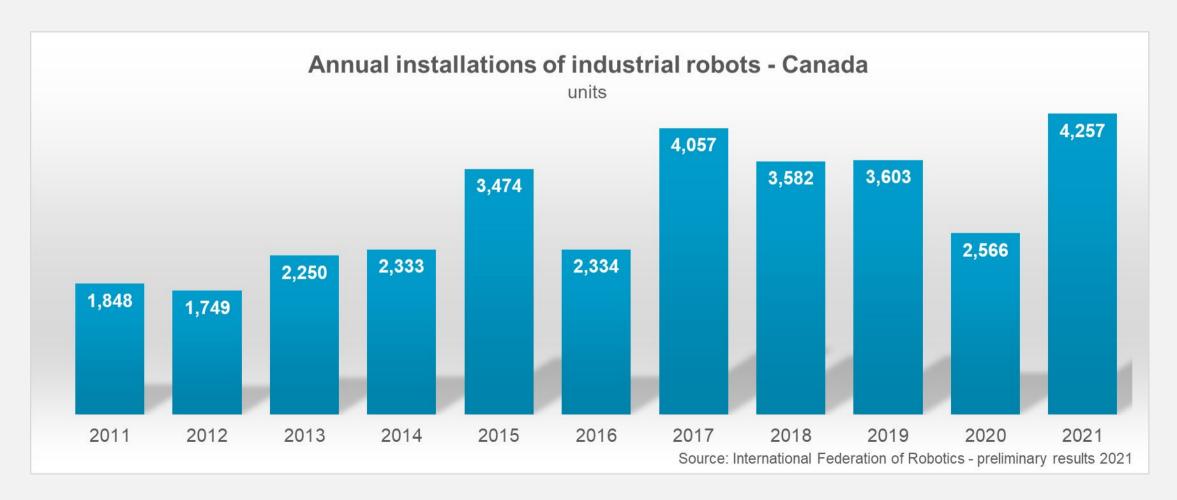
General Industry in the US robotizes





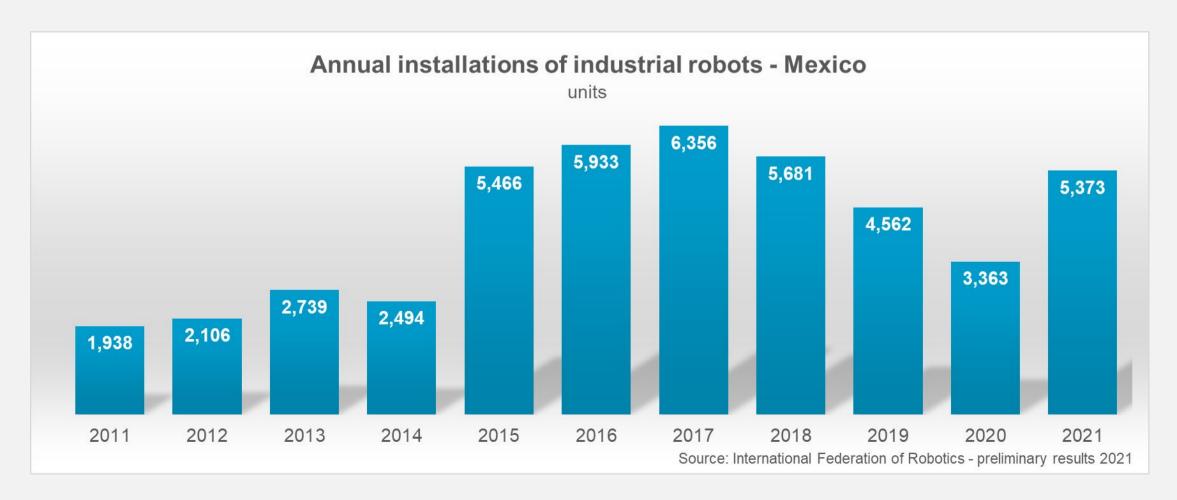
New record in Canada





Rebound in Mexico





Outlook: North America prospering



- Orders and turnover are growing strongly
- Global headwinds
 - China's covid policy interfers with global supply chains
 - Russian invasion in Ukraine and its consequences for Europe are burdening North American economies, too
- Big quit & lack of staff are driving automation
- Diversification of customers continues
 - Robotics beyond automotive